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(WO/2001/069191) APPARATUS AND METHOD FOR MEASURING AND CORRELATING CHARACTERISTICS OF FRUIT WITH VISIBLE/NEAR INFRA-RED SPECTRUM

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Applicants: AUTOLINE, INC. [US/US]; 23243 East Clayton Avenue Reedley, CA 93654 (US).
 AWETA HOLDING, B.V. [NL/US]; 23243 East Clayton Avenue Reedley, CA 93654-9547 (US).

Inventor: OZANICH, Richard, M.; 3100 George Washington Way, #104 Richland, WA 99352 (US).

Agent: WITT, Evan, R.; Madson & Metcalf 15 West South Temple, Suite 900 Salt Lake City, Utah 84101 (US).

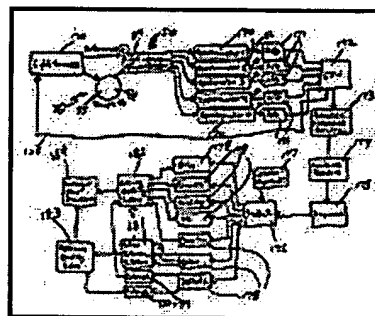
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Title: APPARATUS AND METHOD FOR MEASURING AND CORRELATING CHARACTERISTICS OF FRUIT WITH VISIBLE/NEAR INFRA-RED SPECTRUM

Abstract: This disclosure is of 1) the utilization of the spectrum from 250 nm to 1150 nm for measurement or prediction of one or more parameters, e.g., brix, firmness, acidity, density, pH, color and external and internal defects and disorders including, for example, surface and subsurface bruises, scarring, sun scald, punctures, in N-H, C-H and O-H samples including fruit; 2) an apparatus and method of detecting emitted light from samples exposed to the above spectrum in at least one spectrum range and, in the preferred embodiment, in at least two spectrum ranges of 250 to 499 nm and 500 nm to 1150 nm; 3) the use of the chlorophyll band, peaking at 680 nm, in combination with the spectrum from 700 nm and above to predict one or more of the above parameters; 4) the use of the visible pigment region, including xanthophyll, from approximately 250 nm to 499 nm and anthocyanin from approximately 500 to 550 nm, in combination with the chlorophyll band and the spectrum from 700 nm and above to predict the all of the above parameters.

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